

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4730442

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHAEL GOODMAN SCHROEDER	12/11/2017
MICHAEL ALEXANDER BENEDICT	12/08/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	HAIER US APPLIANCE SOLUTIONS, INC.
<b>Street Address:</b>	CORPORATION TRUST CENTER
<b>Internal Address:</b>	1209 ORANGE STREET
<b>City:</b>	WILMINGTON
<b>State/Country:</b>	DELAWARE
<b>Postal Code:</b>	19801
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15839178
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(864)233-7342
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	864-271-1592
<b>Email:</b>	docketing@dority-manning.com,mbennett@dority-manning.com
<b>Correspondent Name:</b>	DORITY & MANNING, P.A. AND HAIER US APPL
<b>Address Line 1:</b>	POST OFFICE BOX 1449
<b>Address Line 4:</b>	GREENVILLE, SOUTH CAROLINA 29602-1449
<b>ATTORNEY DOCKET NUMBER:</b>	500531US01/HUSA-385
<b>NAME OF SUBMITTER:</b>	SETH E. JONES
<b>SIGNATURE:</b>	/seth e. jones 62,286/
<b>DATE SIGNED:</b>	12/12/2017
<b>Total Attachments: 4</b>	
source=500531US01_US_True_and_Accurate_Copy_Dec_and_Assignment_12DEC2017_HUSA385#page1.tif	
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COMBINED DECLARATION AND GLOBAL ASSIGNMENT  
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor(s), I/we hereby declare that:

This declaration and assignment are directed to:

**AN ELASTO-CALORIC HEAT PUMP SYSTEM**

- ☐ the specification of which is attached hereto OR
- ☒ United States application or PCT international application number  
15/839,178 filed on December 12, 2017, as  
amended on [date] (if applicable).  
(We hereby authorize and request the Company or its delegated attorneys or agents to  
insert above the application number and filing date of the application when known.)

**The above-identified application was made or authorized to be made by us.**

**We believe that we are original joint inventors of a claimed invention in the application.**

We hereby acknowledge that any willful false statement made in this declaration is punishable  
under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application,  
including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this  
application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material  
information which became available between the filing date of the prior application and the filing  
date of the continuation-in-part application.

In accordance with our obligation(s) under an Employee Innovation and Proprietary Information  
Agreement or (as applicable) arising out of other agreements (such as, but not limited to, the  
Services Agreement between General Electric Company, a New York corporation, and our  
employers), and/or for other good and valuable consideration of which we acknowledge receipt,  
I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Michael	Goodman	Schroeder	of	Louisville	Kentucky	USA
Michael	Alexander	Benedict	of	Palo Alto	California	USA

hereby sell and assign to:

Name of Company: <i>Haier US Appliance Solutions, Inc.</i>
Entity Type (optional):
Address: <i>Corporation Trust Center, 1209 Orange Street, Wilmington, DE 19801, USA</i>

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR 1


Signature:   
Michael Goodman Schroeder

Date: 12-11-2017

Witnessed by:   
Signature

Date: 12-11-2017

SKUJAN KUSUMBA  
Printed Name of Witness

Witnessed by:   
Signature

Date: 12-11-2017

Adam Kemmerer  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

\_\_\_\_\_  
Michael Goodman Schroeder

Date: \_\_\_\_\_

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Michael Goodman Schroeder, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)

INVENTOR 2

Signature: \_\_\_\_\_

Michael Alexander Benedict

Date: \_\_\_\_\_

12/08/17

Witnessed by: \_\_\_\_\_

Signature

Date: \_\_\_\_\_

12/6/17

Janie Kalb  
Printed Name of Witness

Witnessed by: \_\_\_\_\_

Signature

Date: \_\_\_\_\_

12/8/17

Kathryn Murphy  
Printed Name of Witness

**SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY**

Date: \_\_\_\_\_

Michael Alexander Benedict

STATE OF

ss.

COUNTY OF

This \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ before me personally came the above-named Michael Alexander Benedict, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)